TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-06-05-03** **Date: 08-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer's Reference	:	BBMP/EE/BTP/WO/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-06-17
Sample ID No	:	2017-06-05-03-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	05-06-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	140	224	22.4	77.6	60-95	75-100	85-100	95-100
4	1.18 mm	165	389	38.9	61.1	30-70	55-90	75-100	90-100
5	600 micron	178	567	56.7	43.3	15-34	35-59	60-79	80-100
6	300 micron	180	747	74.7	25.3	5-20	8-30	12-40	15-50
7	150 micron	156	903	90.3	9.7	0-10	0-10	0-10	0-15
8	Pan	97	1000	100.0	0.0	---	---	---	---

Result ;The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-06-05-03** **Date: 08-06-17**

Sample ID No : 2017-06-05-03-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.95	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	4.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared by
Harshitha

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-06-05-03** **Date: 05-05-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer Reference	:	BBMP/EE/BTP/WO/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-06-17
Sample ID No	:	2017-06-05-03-02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-17

AE ward No 5

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	287	287	5.7	94.3	90-100
3	10 mm	2198	2485	49.7	50.3	25-55
4	4.75 mm	2100	4585	91.7	8.3	0-10
5	Pan	415	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-06-05-03** **Date: 05-05-17**

Sample ID No : 2017-06-05-03-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.4**	
3	Specific Gravity	**2.66**	_
4	Bulk Density(Loose) (Kg/l)	**1.48**	_
5	Bulk Density(Compacted) (Kg/l)	**1.53**	_
6	Water Absorption(%)	**0.24**	_
7	Aggregate crushing Value(%)	**23.5**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.7**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-06-05-03** **Date: 08-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer's Reference	:	BBMP/EE/BTP/WO/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	05-06-17
Sample ID No	:	2017-06-05-03-02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	05-06-17

AE ward No 5 ಸೂಕ್ತ ಕ್ರಮಕ್ಕಾಗಿ
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ಬ.ಬ.ಪ.ಪಾ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	321	321	2.1	97.9	90-100
3	20 mm	5463	5784	38.6	61.4	30-70
4	10 mm	4353	10137	67.6	32.4	10-35
5	4.75 mm	4523	14660	97.7	2.3	0-5
6	Pan	340	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-06-05-03** **Date: 08-06-17**

Sample ID No : 2017-06-05-03-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.5**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.4**	
3	Specific Gravity	**2.69**	_
4	Bulk Density(Loose) (Kg/l)	**1.54**	_
5	Bulk Density(Compacted) (Kg/l)	**1.59**	_
6	Water Absorption(%)	**0.25**	_

Note:
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Prepared by
Harshitha

AE Ward No 5

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-06-05-03** **Date: 07-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer's Reference	:	BBMP/EE/BTP/WO/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-06-17
Sample ID No	:	2017-06-05-03/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	06-06-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.6	–
2	Finess by Air permeablity method (m^2/kg, Min)	274.5	225m^2/kg, Min
3	Density (gm/cc)	3.19	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Prepared by

Harshitha

AE ward No 5

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Authorized Signatory

Quality Manager

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****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-06-05-03** **Date: 04-07-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer's Reference	:	BBMP/EE/BTP/WO/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-06-17
Sample ID No	:	2017-06-05-03/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	06-06-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

Note:
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Prepared by
Harshitha

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-06-17-04** **Date: 19/06/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.

Agency : M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.

Customer's Reference : BBMP/EE/BTP/WO/55/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-06-17

Sample ID No : 2017-06-17-04-01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	12/06/2017	19/06/2017	150.22 X 150.23 X 150.29	22568	8.412	392.7	17.4	
2	Drain Concrete	M20	12/06/2017	19/06/2017	150.20 X 150.25 X 150.27	22568	8.390	404.0	17.9	17.6
3	Drain Concrete	M20	12/06/2017	19/06/2017	150.20 X 150.21 X 150.28	22562	8.344	397.1	17.6	

Note:

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Harsitha

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-06-17-04** **Date: 10/07/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.

Agency : M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.

Customer's Reference : BBMP/EE/BTP/WO/55/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-06-17

Sample ID No : 2017-06-17-04-02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	12/06/2017	10/07/2017	150.14 X 150.19 X 150.21	22550	8.367	507.4	22.5	22.5
2	Drain Concrete	M20	12/06/2017	10/07/2017	150.26 X 150.23 X 150.24	22574	8.390	514.7	22.8	
3	Drain Concrete	M20	12/06/2017	10/07/2017	150.20 X 150.24 X 150.26	22566	8.412	498.7	22.1	

Note:

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Prepared by
Harsitha

ward no 5
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CIVIL PRO Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-06-05-03** **Date: 07-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer's Reference	:	BBMP/EE/BTP/WO/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-06-17
Sample ID No	:	2017-06-05-03-04
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	06-06-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.392	548	679	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.612	566	690	18.5%	Satisfactory	Satisfactory

Note:

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Prepared By:
Harshitha

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Quality Manager

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-06-26-01** **Date: 09-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer Reference	:	BBMP/EE/BTP/WO/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-17
Sample ID No	:	2017-06-26-01-01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	26-06-17
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	326	326	3.0	97.0	95-100
22.4	2263	2589	23.5	76.5	60-80
11.2	2176	4765	43.3	56.7	40-60
4.75	2262	7027	63.9	36.1	25-40
2.36	1609	8636	78.5	21.5	15-30
0.6	618	9254	84.1	15.9	8-22
0.075	1354	10608	96.4	3.6	0-5

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Harshitha

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-06-26-01** **Date: 28-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer Reference	:	BBMP/EE/BTP/WO/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-17
Sample ID No	:	2017-06-26-01-01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	26-06-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	304.2	304.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	229.9	229.9
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.3
5	Aggregate impact value	(B/A)*100	24.3	24.3
6	Aggregate impact value (Mean of two tests)	Pecentage	24.3	

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-06-26-01** **Date: 28-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer Reference	:	BBMP/EE/BTP/WO/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-17
Sample ID No	:	2017-06-26-01-01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	26-06-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	14.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.6%	
Combined Flakiness and Elongation Index for WMM	28.5%	

Note:-
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TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-07-03-01** **Date: 04-07-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer Reference	:	BBMP/EE/BTP/WO/55/2017-18
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-17
Sample ID No	:	2017-07-03-01/01
Type of Mix	:	SDBC-Plant (Semi Dense Bituminous Concrete)
Date of test	:	03-07-17
Oven Dry Weight(gm)	:	5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	410	410	8.2	91.8	90-100
4.75	2187	2597	51.9	48.1	35-51
2.36	1038	3635	72.7	27.3	24-39
1.18	525	4160	83.2	16.8	15-30
0.3	503	4663	93.3	6.7	9-19
0.075	169	4832	96.6	3.4	3-8
PAN	168	5000	100.0	0.0	0

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR SEMI DENSE BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2017-07-03-01**	**Date: 05-07-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.	
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.	
Customer Reference	:	BBMP/EE/BTP/WO/55/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	03-07-17	
Sample ID No	:	2017-07-03-01/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	03-07-17	

Physical Requirements fo Coarse Aggregate for Semi Dense Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	11.8	Combined Flakiness & Elongation Index is Maximum 30%	IS:2386 Part I
	Elongation Index	12.1		
Strength	Aggregate Impact Value	21.7	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.59	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.28	Maximum 2%	IS:2386 Part III

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Format No: CP/TF/2017

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-06-28-01** **Date: 30-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.
Project Name	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer's Reference	:	BBMP/EE/BTP/WO/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-06-17
Sample ID No	:	2017-06-28-01-01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	28-06-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**67**	60 to 70
2	Softening Point, °C	**45**	Min. 40°C
3	Ductility, cm	**99**	Min. 75cm
4	Flash point, °C	**240**	Min. 220°C
	Fire point, °C	**245**	

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-07-03-01** **Date: 05-07-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer Reference	:	BBMP/EE/BTP/WO/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-17
Sample ID No	:	2017-07-03-01/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	03-07-17

The results of the tests conducted on the Semi Dense Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-16
1	Marshal Stability at 60°C, KN	10.54	10.11	8.2KN(min)
2	Marshal flow at 60°C, mm	3.22	3.29	2-4
3	Percent air Voids	4.59	4.25	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.88	13.94	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.32	70.0	65-75
6	Density, g/cc	2.26	2.24	–

Note:-
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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-07-03-01** **Date: 05-07-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer Reference	:	BBMP/EE/BTP/WO/55/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-17
Sample ID No	:	2017-07-03-01/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	03-07-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.5	2.5	97.8	Minimum Retained Coating 95%
2	98.0	2.0		
3	98.0	2.0		

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TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-RW-2017-07-07-01**	**Date: 08-07-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drains at Kattigenahalli Surrounding area in ward no.05, Byatarayanapura Sub Division.	
Agency	:	M/S, NISCHAL CONSTRUCTIONS, Sri.N.Naveen, No:363, 10th main, 1st cross, Sampige Layout, Vijayanagara, Bangalore-560 079.	
Customer Reference	:	BBMP/EE/BTP/WO/55/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	07-07-17	
Sample ID No	:	2017-07-07-01/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	07-07-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	504	504
2	Weight of the sample After extraction	B	479	480
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.96	4.76
4	Average percentage	%	4.86	

Prepared By:
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Lab ID : **CP-RW-2017-07-07-01** **Date: 08-07-17**

Sample ID No : **2017-07-07-01/01**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 479

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	19	19	4.0	96.0	90-100
4.75	250	269	56.2	43.8	35-51
2.36	76	345	72.0	28.0	24-39
1.18	33	378	78.9	21.1	15-30
0.3	53	431	90.0	10.0	9-19
0.075	17	448	93.5	6.5	3-8

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 480

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	30	30	6.3	93.8	90-100
4.75	212	242	50.4	49.6	35-51
2.36	72	314	65.4	34.6	24-39
1.18	51	365	76.0	24.0	15-30
0.3	59	424	88.3	11.7	9-19
0.075	32	456	95.0	5.0	3-8

Note:-

The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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